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THE ONLY SOLAR PANEL COMPANY
OFFICIALLY SUPPORTED BY A
STATE-OWNED ENTERPRISE.

Siro Buildex

Siro

SOLAR PANEL

ALL IN ONE

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  - 离网储能系统 Off-grid energy storage system
  - 集中式光伏供电 Centralized photovoltaic power supply
  - 太阳能供电系统 Solar power supply system

COMPANY PROFILE

企业简介

SiroBuildex focuses on the R&D and production of non-standard photovoltaic modules and supporting solar power solutions.

Buildex integrates the R&D, production, and sales of photovoltaic (PV) modules. Currently, our monocrystalline and polycrystalline PV modules are widely utilized across various fields, including energy storage systems, smart agriculture, smart water conservancy, smart cities, smart communities, and smart transportation. They power an array of applications such as IoT solar power supplies, monitoring system power supplies, solar streetlights, off-grid power generation, grid-connected power generation, and other outdoor power solutions. Our sales network spans nationwide and extends to numerous overseas markets.
Dedicated to providing the most professional and premium-quality PV products for diverse industry clients, the company invests over **6% of its annual operating revenue into R&D**. We boast a workforce of over 300 employees, supported by a highly professional R&D team.
Upholding the core tenet of **"satisfying our clients' clients,"** Buildex remains strictly customer-centric. Through continuous refinement, pioneering spirit, and innovation, we are committed to delivering top-tier product components and highly efficient power generation system solutions for users across all industries.

R&D

Manufacturing

Sales

Service

THE ONLY SOLAR PANEL COMPANY OFFICIALLY SUPPORTED BY A STATE- OWNED ENTERPRISE.

SERVICE SECTOR

服务领域

SiroBulidex excels in the advanced application and innovation of solar photovoltaic technology. Its systems are widely deployed across diverse sectors, including security, forest fire prevention, water conservancy automation, automated monitoring of oil and gas well sites and pipelines, disaster early warning and mitigation, smart transportation, marine and maritime information infrastructure, meteorological and environmental monitoring, national defense and border security, smart agriculture, new rural development, targeted poverty alleviation, smart grids, municipal infrastructure, and wireless communications.

- Communication base station
- Pastoral area
- Wastewater treatment
- Drone Power Station
- Island Electric
- Trading
- Portable power
- Agricultural electricity
- Backup Emergency

QUALIFICATION

资质实力

资质齐全，实力与信誉的双重保障。

QUALIFICATIONS IN PLACE, A DUAL GUARANTEE OF STRENGTH AND REPUTATION

100000m²+
Factory floor area

300+
Employee

15年+
History

15000+
Cooperation

50+国家
Country

50人+
Engineer

SOLAR PANEL

太阳能板

PART 2

PRODUCT INTRODUCTION

产品简介

·Solar Power

·System KitsOff-Grid Energy Storage Systems·Premium ESS Batteries

·Hybrid InvertersAll-in-One Storage Systems

·C&I ESS Solutions

Full-Scenario Applications: Fully meeting the needs of **utility-scale power plants, commercial & industrial (C&I) distributed systems, and residential rooftops**.

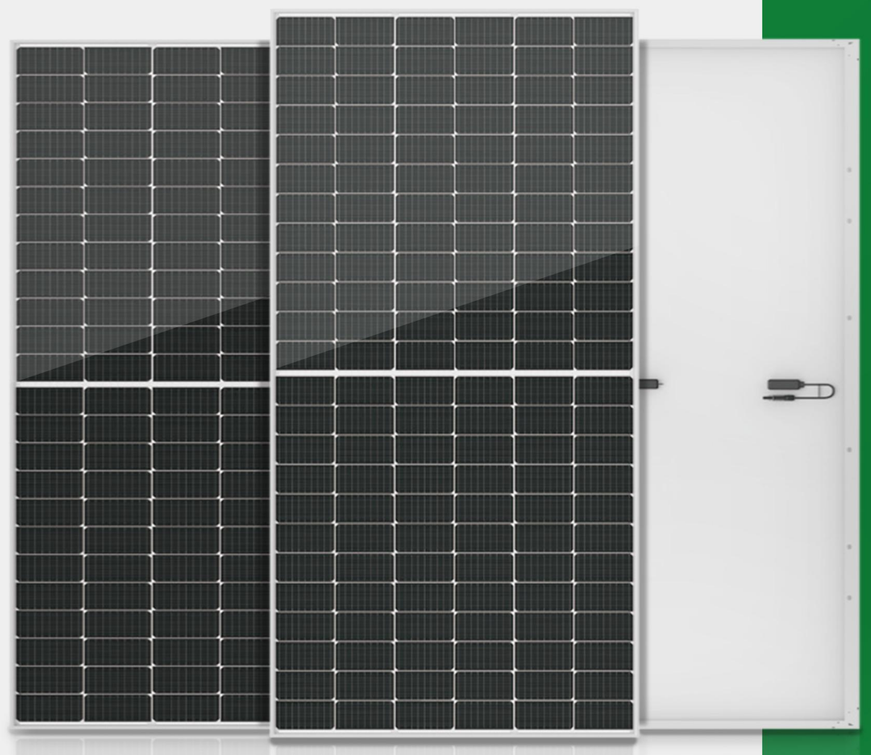
Core Advantages: Backed by a **mature manufacturing supply chain** and **comprehensive system compatibility**, we deliver distinct competitive advantages.

Service Life: 5 – 25 years.

21%
Ultra-High Conversion Efficiency

25 YEARS
Long Service Life

90%
Ultra-Low Degradation



SOLAR PANELS

XY-010M 18V

产品型号 /PRODUCT MODEL

Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	10W
Maximum Power Current (Imp)	0.532A
Open-Circuit Voltage (Voc)	22.506V
Short-Circuit Current (Isc)	0.56A
Dimensions (mm)	200*350*17

XY-030M 18V

产品型号 /PRODUCT MODEL

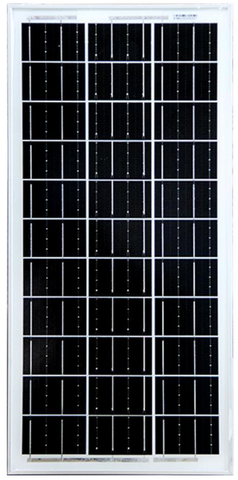
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	30W
Maximum Power Current (Imp)	1.703A
Open-Circuit Voltage (Voc)	22.506V
Short-Circuit Current (Isc)	1.803A
Dimensions (mm)	460*395*25

XY-020M 18V

产品型号 /PRODUCT MODEL



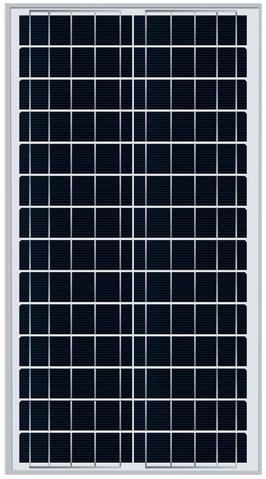
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	20W
Maximum Power Current (Imp)	1.13A
Open-Circuit Voltage (Voc)	22.506V
Short-Circuit Current (Isc)	1.202A
Dimensions (mm)	250*520*17

XY-040M 18V

产品型号 /PRODUCT MODEL



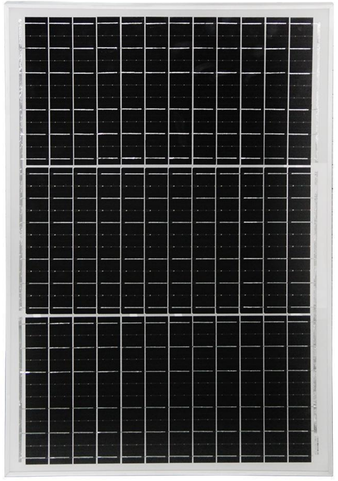
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	40W
Maximum Power Current (Imp)	2.12A
Open-Circuit Voltage (Voc)	22.605V
Short-Circuit Current (Isc)	2.26A
Dimensions (mm)	670*350*25

XY-050M 18V

产品型号 /PRODUCT MODEL



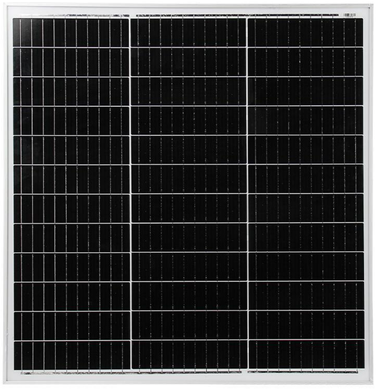
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	50W
Maximum Power Current (Imp)	2.42A
Open-Circuit Voltage (Voc)	24.48V
Short-Circuit Current (Isc)	2.57A
Dimensions (mm)	670*430*25

XY-080M 18V

产品型号 /PRODUCT MODEL



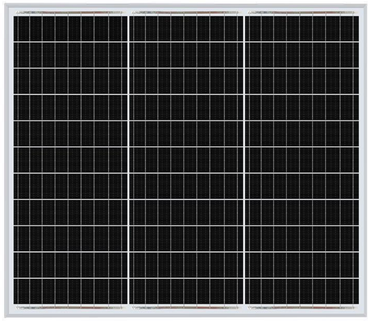
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	21.1V
Maximum Power (Pmax)	87W
Maximum Power Current (Imp)	4.1A
Open-Circuit Voltage (Voc)	24V
Short-Circuit Current (Isc)	4.59A
Dimensions (mm)	670*700*25

XY-060M 18V

产品型号 /PRODUCT MODEL



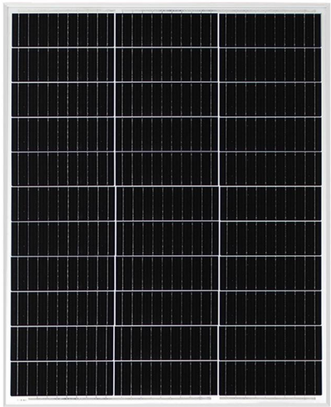
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	19.38V
Maximum Power (Pmax)	60W
Maximum Power Current (Imp)	3.10A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	3.47A
Dimensions (mm)	670*500*25

XY-100M 18V

产品型号 /PRODUCT MODEL



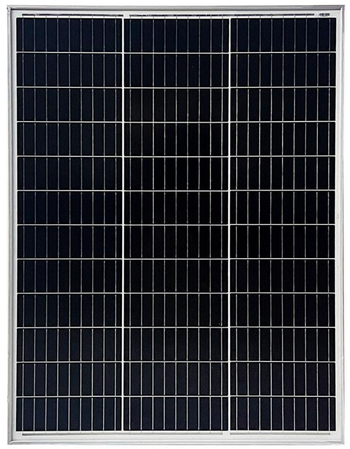
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18.2V
Maximum Power (Pmax)	109W
Maximum Power Current (Imp)	5.99A
Open-Circuit Voltage (Voc)	21.4V
Short-Circuit Current (Isc)	6.2A
Dimensions (mm)	670*830*30

XY-120M 18V

产品型号 /PRODUCT MODEL



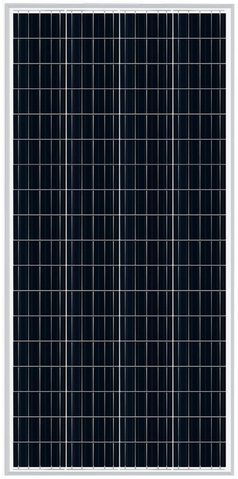
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	20.52V
Maximum Power (Pmax)	120W
Maximum Power Current (Imp)	6.18A
Open-Circuit Voltage (Voc)	24.9V
Short-Circuit Current (Isc)	6.5A
Dimensions (mm)	670*910*30

XY-200M 18V

产品型号 /PRODUCT MODEL



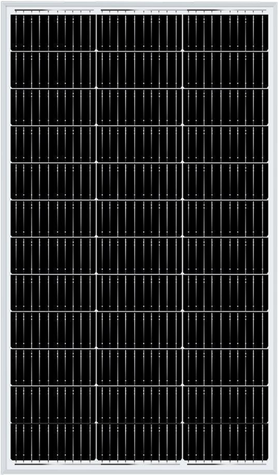
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	200W
Maximum Power Current (Imp)	11.11A
Open-Circuit Voltage (Voc)	21.6V
Short-Circuit Current (Isc)	12.55A
Dimensions (mm)	670*1510*30

XY-150M 18V

产品型号 /PRODUCT MODEL



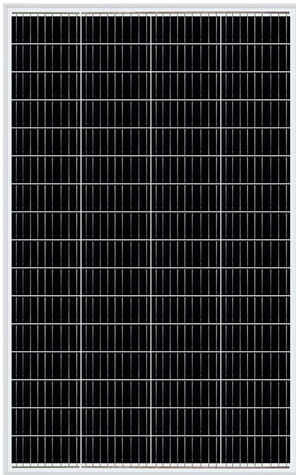
Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	18V
Maximum Power (Pmax)	150W
Maximum Power Current (Imp)	7.7A
Open-Circuit Voltage (Voc)	23.4V
Short-Circuit Current (Isc)	7.92A
Dimensions (mm)	670*1150*30

XY-250M 18V

产品型号 /PRODUCT MODEL



Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	19.5V
Maximum Power (Pmax)	253W
Maximum Power Current (Imp)	12.8A
Open-Circuit Voltage (Voc)	23.9V
Short-Circuit Current (Isc)	13.3A
Dimensions (mm)	885*1440*35

XY-280M 18V

产品型号 /PRODUCT MODEL

Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	20.2V
Maximum Power (Pmax)	280W
Maximum Power Current (Imp)	13.8A
Open-Circuit Voltage (Voc)	23.5V
Short-Circuit Current (Isc)	14.6V
Dimensions (mm)	885*1610*35

XY-300M 18V

产品型号 /PRODUCT MODEL

Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	20.2V
Maximum Power (Pmax)	300W
Maximum Power Current (Imp)	14.8A
Open-Circuit Voltage (Voc)	23.5V
Short-Circuit Current (Isc)	15.6A
Dimensions (mm)	885*1700*35

XY-280M 36V

产品型号 /PRODUCT MODEL

Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	40.91V
Maximum Power (Pmax)	280W
Maximum Power Current (Imp)	6.87A
Open-Circuit Voltage (Voc)	48.61V
Short-Circuit Current (Isc)	7.1A
Dimensions (mm)	885*1610*35

XY-300M 36V

产品型号 /PRODUCT MODEL

Versatile Across Diverse Scenarios

Rooftops Monitoring Systems Streetlights Outdoor Applications

Maximum Power Voltage (Vmp)	40.5V
Maximum Power (Pmax)	300W
Maximum Power Current (Imp)	7.45A
Open-Circuit Voltage (Voc)	47V
Short-Circuit Current (Isc)	7.8A
Dimensions (mm)	885*1700*35

Single-Glass

High Power Generation Low Cost

Maximum power 565W+

545-565W

适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

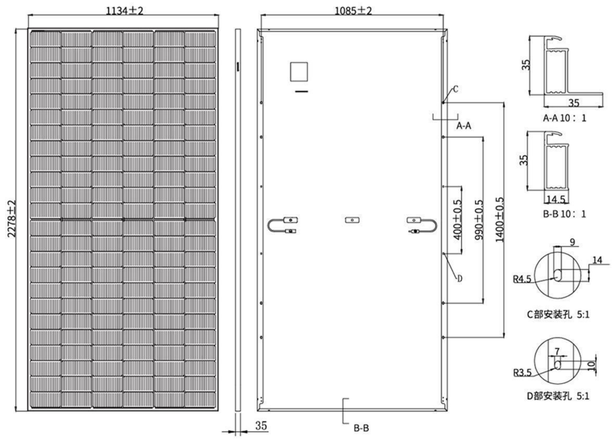
25 25年线性功率输出质保
25-YEAR LINEAR POWER OUTPUT WARRANTY

12 12年材料与工艺质保
12 YEARS MATERIAL AND WORKMANSHIP WARRANTY

FEATURE

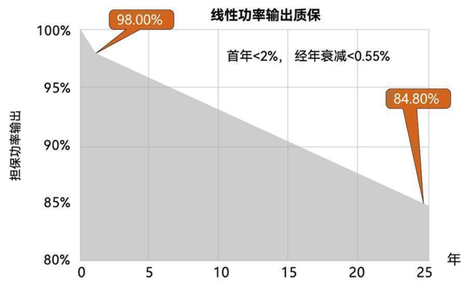
- HIGH PERFORMANCE
- COST-EFFICIENCY
- RELIABLE PRODUCT
- DURABLE DESIGN
- PERFECT QUALITY
- INTEGRATED SYSTEM

SIZE CHART (UNIT: MM)
尺寸图（单位：mm）

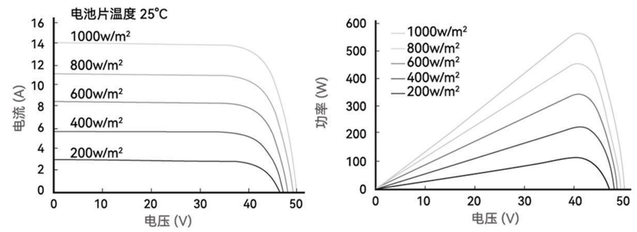


Solar Cell Type	P-Type Monocrystalline (PERC) Cell
Cell Arrangement	144 pcs [6 × 24]
Module Dimensions	2278±2 × 1134±2 × 30 mm
Module Weight	27.8 kg
Front Glass	3.2 mm High-Transmission, Anti-Reflective Coated Tempered Glass
Backsheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 Diodes
Cable Cross-Section	4.0 mm²
Cable Length	+400 mm / -200 mm; ±1400 mm; or Customized
Wind/Snow Load	2400 Pa / 5400 Pa
Packaging Configuration	31 pcs per Pallet

LINEAR WARRANTY
线性质保



I-V LINE TAKING
I-V取线



ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type	JYM545-565W				
Maximum Power (Pmax) [W]	545	550	555	560	565
Open-Circuit Voltage (Voc) [V]	49.71	49.91	50.11	50.31	50.51
Short-Circuit Current (Isc) [A]	13.88	13.92	13.96	14	14.04
Maximum Power Voltage (Vmp) [V]	41.05	41.25	41.45	41.65	41.85
Maximum Power Current (Imp) [A]	13.28	13.33	13.39	13.45	13.51
Module Efficiency (η) [%]	21.1	21.3	21.5	21.7	21.9

ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax) [W]	412.4	416.2	420	423.8	427.6
Open-Circuit Voltage (Voc) [V]	47.18	47.4	47.62	47.85	48.04
Short-Circuit Current (Isc) [A]	10.94	10.97	10.99	11.02	11.05
Maximum Power Voltage (Vmp) [V]	39.28	39.55	39.82	40.09	40.28
Maximum Power Current (Imp) [A]	10.5	10.52	10.55	10.57	10.61

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.33%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.05%/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0 ~ +5W

Single-Glass

570-590W

适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

25 25年线性功率输出质保
25-YEAR LINEAR POWER OUTPUT WARRANTY

12 12年材料与工艺质保
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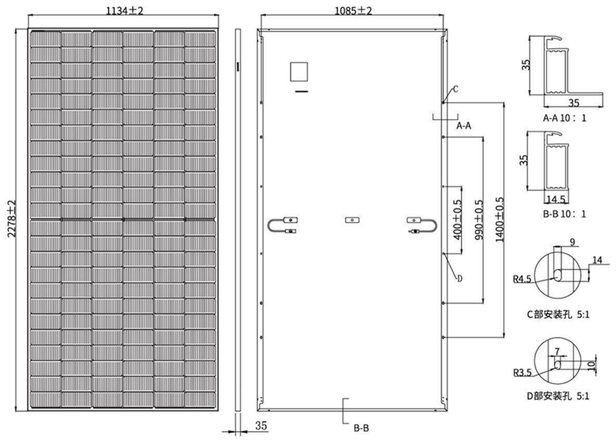
FEATURE

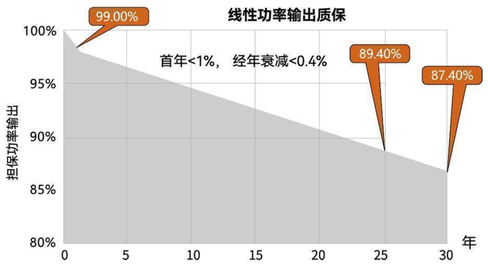
- HIGH PERFORMANCE
- COST-EFFICIENCY
- RELIABLE PRODUCT
- DURABLE DESIGN
- PERFECT QUALITY
- INTEGRATED SYSTEM

SIZE CHART (UNIT: MM)
尺寸图（单位：mm）

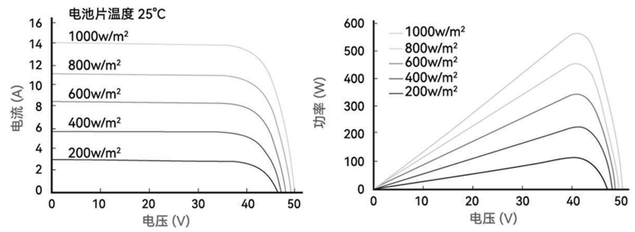


Solar Cell Type	N-Type Monocrystalline Cell
Cell Arrangement	144 pcs [6 × 24]
Module Dimensions	2278±2 × 1134±2 × 30 mm
Module Weight	27.8 kg
Front Glass	3.2 mm High-Transmission, Anti-Reflective Coated Tempered Glass
Backsheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 Diodes
Cable Cross-Section	4.0 mm²
Cable Length	+400 mm / -200 mm; ±1400 mm; or Customized
Wind/Snow Load	2400 Pa / 5400 Pa
Packaging Configuration	31 pcs per Pallet

LINEAR WARRANTY
线性质保



I-V LINE TAKING
I-V取线



ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type	JYM570-590W				
Maximum Power (Pmax) [W]	570	575	580	585	590
Open-Circuit Voltage (Voc) [V]	52.4	52.6	52.8	53	53.2
Short-Circuit Current (Isc) [A]	13.42	13.46	13.5	13.54	13.58
Maximum Power Voltage (Vmp) [V]	44.63	44.83	45.03	45.23	45.43
Maximum Power Current (Imp) [A]	12.78	12.83	12.9	12.94	13
Module Efficiency (η) [%]	22.1	22.3	22.5	22.6	22.8

ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax) [W]	413.4	435.2	438.9	442.7	446.5
Open-Circuit Voltage (Voc) [V]	49.8	50.03	50.22	50.41	50.6
Short-Circuit Current (Isc) [A]	10.56	10.59	10.63	10.66	10.69
Maximum Power Voltage (Vmp) [V]	42.87	43.15	43.34	43.54	43.73
Maximum Power Current (Imp) [A]	10.06	10.08	10.12	10.16	10.21

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.33%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.05%/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0 ~ +5W

Double -Glass

540-560W

适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

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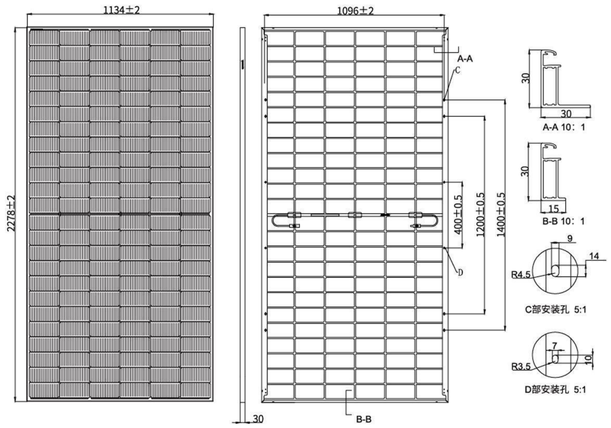
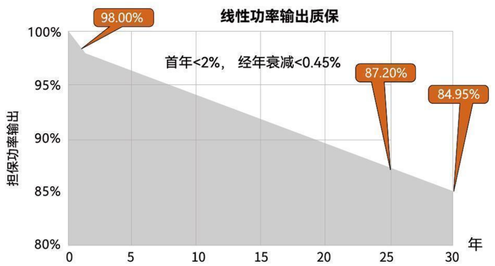
- INTEGRATED SYSTEM

SIZE CHART (UNIT: MM)
尺寸图（单位：mm）

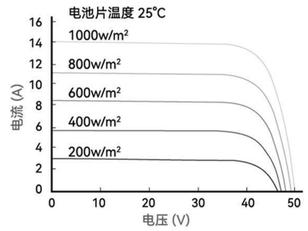


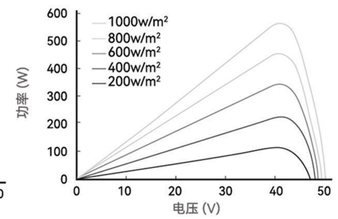
Solar Cell Type	N-Type Monocrystalline Cell
Cell Arrangement	144 pcs [6 × 24]
Module Dimensions	2278±2 × 1134±2 × 30 mm
Module Weight	31.5 kg
Front Glass	2.0 mm High-Transmission, Anti-Reflective Coated Glass
Backsheet	2.0 mm Semi-Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 Diodes
Cable Cross-Section	4.0 mm²
Cable Length	+400 mm / -200 mm; or Customized
Wind/Snow Load	2400 Pa / 5400 Pa
Packaging Configuration	36 pcs per Pallet

LINEAR WARRANTY
线性质保



I-V LINE TAKING
I-V取线





ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type	JYM540-560W				
Maximum Power (Pmax) [W]	540	545	550	555	560
Open-Circuit Voltage (Voc) [V]	49.7	49.9	50.1	50.3	50.5
Short-Circuit Current (Isc) [A]	13.78	13.83	13.88	13.93	13.98
Maximum Power Voltage (Vmp) [V]	41.56	41.76	41.16	42.16	42.36
Maximum Power Current (Imp) [A]	13	13.05	13.11	13.17	13.23
Module Efficiency (η) [%]	20.9	21.1	21.3	21.5	21.7

ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax) [W]	408.6	412.4	416.2	420	423.8
Open-Circuit Voltage (Voc) [V]	46.48	46.74	47.01	47.28	47.47
Short-Circuit Current (Isc) [A]	11.04	11.08	11.12	11.16	11.2
Maximum Power Voltage (Vmp) [V]	38.45	38.67	38.9	39.12	39.31
Maximum Power Current (Imp) [A]	10.62	10.66	10.7	10.74	10.79

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.33%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.05%/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	70±5%

Double -Glass

565-585W

N-Type Bifacial Double-Glass Module

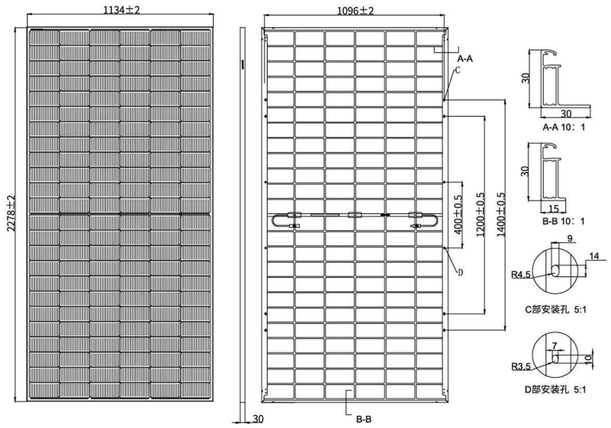
适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

25 25年线性功率输出质保
25-YEAR LINEAR POWER OUTPUT WARRANTY

12 12年材料与工艺质保
12 YEARS MATERIAL AND WORKMANSHIP WARRANTY

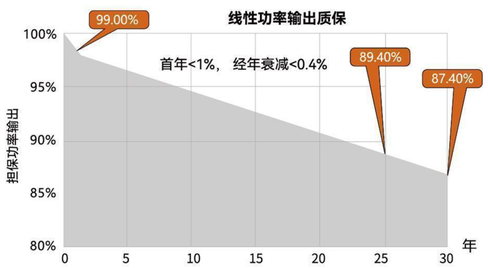
HIGH PERFORMANCE | COST-EFFICIENCY | RELIABLE PRODUCT | DURABLE DESIGN | PERFECT QUALITY | INTEGRATED SYSTEM

SIZE CHART (UNIT: MM)
尺寸图（单位：mm）

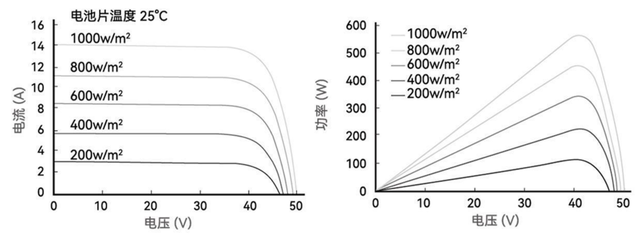


Cell Type	TNC(N Type Monocrystalline Cell)
Cell Arrangement	144 pcs [6×24]
Module Dimensions	2278±2×1134±2×30mm
Weight	31.5KG
Front Glass	2.0mm high-transmission, anti-reflective (AR) coated tempered glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4.0mm²
Cable Length	+400mm / -200mm (or customized length)
Wind/Snow Load	2400Pa / 5400Pa
Packaging	36 pcs per pallet

LINEAR WARRANTY
线性质保



I-V LINE TAKING
I-V取线



ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type / Model	JYM565-585W				
Maximum Power (Pmax)	565	570	575	580	565
Open-Circuit Voltage [V]	51.04	51.24	51.44	51.64	51.84
Short-Circuit Current (Isc)[A]	14.17	14.21	14.25	14.29	14.33
Voltage at Pmax (Vmp)[V]	42.68	42.88	43.08	43.28	43.48
Current at Pmax (Imp)[A]	13.24	13.29	13.35	13.4	13.46
Module Efficiency:η [%]	21.9	22.1	22.3	22.5	22.6

ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax)[W]	424.8	428.6	432.4	436.1	439.9
Open-Circuit Voltage [V]	48.48	48.67	48.86	49.05	49.24
Short-Circuit Current (Isc)[A]	11.47	11.52	11.56	11.6	11.63
Voltage at Pmax (Vmp)[V]	39.89	39.95	40	40.19	40.37
Current at Pmax (Imp)[A]	10.63	10.7	10.78	10.85	10.9

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Bifaciality (or Bifacial Factor of Pmax)	80±5%

Double -Glass

600-620W

适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

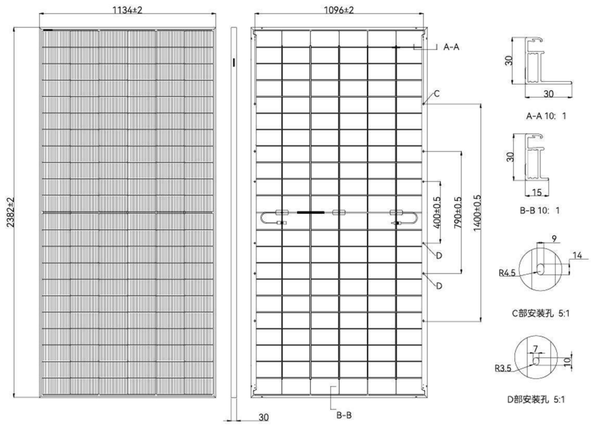
25 25年线性功率输出质保
25-YEAR LINEAR POWER OUTPUT WARRANTY

12 12年材料与工艺质保
12 YEARS MATERIAL AND WORKMANSHIP WARRANTY

FEATURE

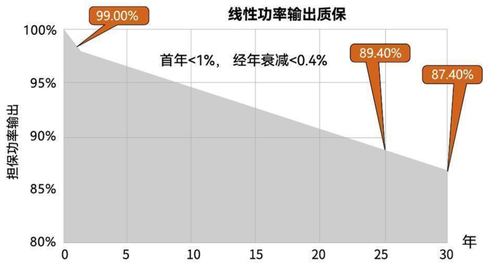
- HIGH PERFORMANCE
- COST-EFFICIENCY
- RELIABLE PRODUCT
- DURABLE DESIGN
- PERFECT QUALITY
- INTEGRATED SYSTEM

SIZE CHART (UNIT: MM)
尺寸图（单位：mm）

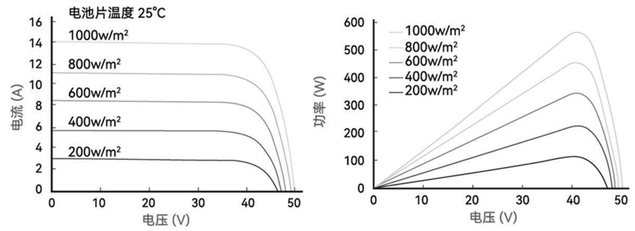


Solar Cell Type	P-Type Monocrystalline (PERC) Cell
Cell Arrangement	144 pcs [6 × 24]
Module Dimensions	2278±2 × 1134±2 × 30 mm
Module Weight	31.5 kg
Front Glass	2.0 mm High-Transmission, Anti-Reflective Coated Glass
Backsheet	2.0 mm Semi-Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68, 3 Diodes
Cable Cross-Section	4.0 mm²
Cable Length	+400 mm / -200 mm; or Customized
Wind/Snow Load	2400 Pa / 5400 Pa
Packaging Configuration	36 pcs per Pallet

LINEAR WARRANTY
线性质保



I-V LINE TAKING
I-V取线



ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type	JYM600-620W				
Maximum Power (Pmax) [W]	600	605	610	615	620
Open-Circuit Voltage (Voc) [V]	47.5	47.7	47.9	48.1	48.3
Short-Circuit Current (Isc) [A]	15.75	15.8	15.85	15.9	15.95
Maximum Power Voltage (Vmp) [V]	40.75	40.95	41.15	41.35	41.55
Maximum Power Current (Imp) [A]	14.73	14.78	14.83	14.88	14.93
Module Efficiency (η) [%]	22.2	22.4	22.6	22.8	23

ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax) [W]	451	455	459	462	466
Open-Circuit Voltage (Voc) [V]	45.13	45.32	45.51	45.7	45.89
Short-Circuit Current (Isc) [A]	12.72	12.76	12.8	12.84	12.88
Maximum Power Voltage (Vmp) [V]	37.94	38.14	38.35	38.47	38.68
Maximum Power Current (Imp) [A]	11.89	11.93	11.97	12.01	12.05

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	80±5%

Double -Glass

615-635W

N-Type Bifacial Double-Glass Module

适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

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FEATURE

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- RELIABLE PRODUCT
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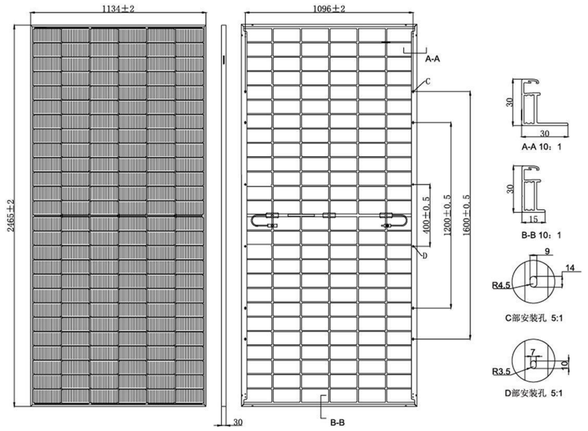
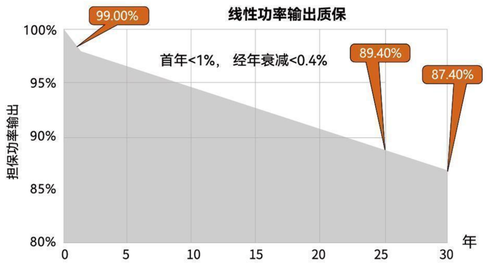
SIZE CHART (UNIT: MM)
尺寸图（单位：mm）

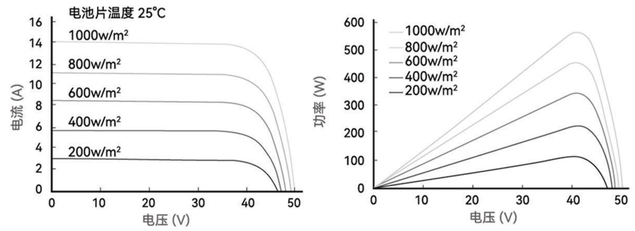


Cell Type	TNC (N-Type Monocrystalline)
Cell Arrangement	156 pcs [6 × 26]
Module Dimensions	2465 +2 x 1134+2 x 30 mm
Weight	34.6KGS
Front Glass	2.0mm high-transmission, anti-reflective (AR) coated tempered glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4.0mm²
Cable Length	+400mm / -200mm (or customized length)
Wind/Snow Load	2400Pa / 5400Pa
Packaging	36 pcs per pallet

LINEAR WARRANTY
线性质保



I-V LINE TAKING
I-V取线



ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type / Model	JYM615-635W				
Maximum Power (Pmax)	615	620	625	630	635
Open-Circuit Voltage [V]	55.4	55.6	55.8	56	56.2
Short-Circuit Current (Isc)[A]	14.14	14.18	14.22	14.26	14.3
Voltage at Pmax (Vmp)[V]	46.18	46.38	46.58	46.78	46.98
Current at Pmax (Imp)[A]	13.32	13.37	13.42	13.47	13.52
Module Efficiency:η [%]	22	22.2	22.4	22.5	22.7

ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax)[W]	462.4	466.2	470	473.7	476.1
Open-Circuit Voltage [V]	52.62	52.81	53	53.19	53.38
Short-Circuit Current (Isc)[A]	11.47	11.51	11.54	11.57	11.61
Voltage at Pmax (Vmp)[V]	43.02	43.07	43.25	43.44	43.62
Current at Pmax (Imp)[A]	10.72	10.79	10.83	10.87	10.91

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s

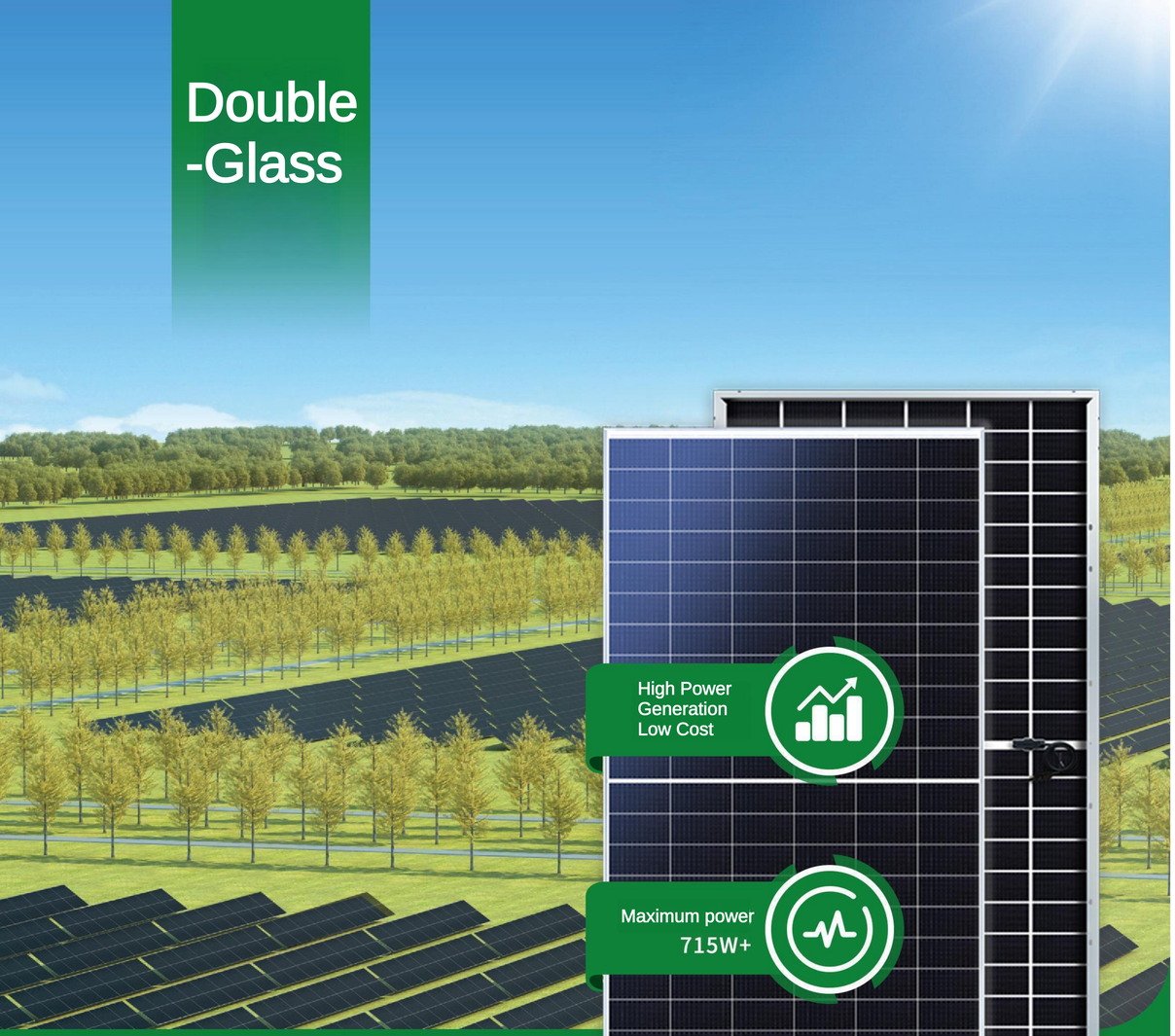
TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Bifaciality (or Bifacial Factor of Pmax)	80±5%

Double -Glass



690-715W

N-Type Bifacial Double-Glass Module

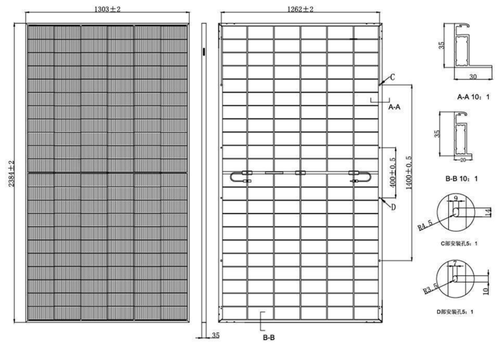
适用于多种场景
APPLICABLE TO A VARIETY OF SCENARIOS

25 25年线性功率输出质保
25-YEAR LINEAR POWER OUTPUT WARRANTY

12 12年材料与工艺质保
12 YEARS MATERIAL AND WORKMANSHIP WARRANTY

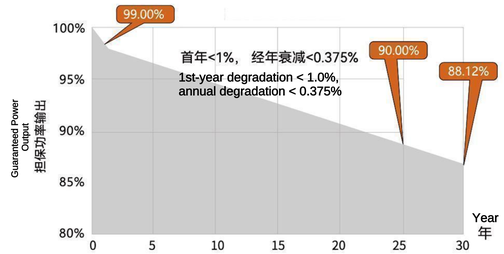
HIGH PERFORMANCE | COST-EFFICIENCY | RELIABLE PRODUCT | DURABLE DESIGN | PERFECT QUALITY | INTEGRATED SYSTEM

SIZE CHART (UNIT: MM)
尺寸图（单位：mm）



Cell Type	THC(N Type Heterojunction Cell)
Cell Arrangement	132 pcs[6×22]
Module Dimensions	2384±2×1303±2×30mm
Weight	38KG
Front Glass	2.0mm high-transmission, anti-reflective (AR) coated tempered glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4.0mm²
Cable Length	+400mm / -200mm (or customized length)
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet

LINEAR WARRANTY
线性质保



ELECTRICAL PERFORMANCE PARAMETERS
STC条件下的电性能参数

Module Type / Model	JYM690-715W					
Maximum Power (Pmax)	690	695	700	705	710	715
Open-Circuit Voltage [V]	49.84	49.99	50.14	50.29	50.44	50.59
Short-Circuit Current (Isc)[A]	17.33	17.39	17.45	17.51	17.57	17.63
Voltage at Pmax (Vmp)[V]	41.87	42.02	42.17	42.32	42.47	42.62
Current at Pmax (Imp)[A]	16.48	16.54	16.6	16.66	16.72	16.78
Module Efficiency:η [%]	22.2	22.4	22.5	22.7	22.9	23

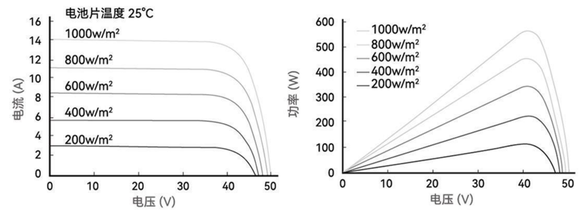
TEMPERATURE PARAMETER
温度参数

Temperature Coefficient of Pmax	-0.25%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C
Nominal Module Operating Temperature (NMOT)	44±2°C

MAXIMUM RATED PARAMETERS
最大额定参数

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Bifaciality (or Bifacial Factor of Pmax)	90±5%

I-V LINE TAKING
I-V取线



ELECTRICAL PERFORMANCE PARAMETERS
NMOT条件下的电性能参数

Maximum Power (Pmax)[W]	525	529	532	536	540	540
Open-Circuit Voltage [V]	47.56	47.7	47.85	47.99	48.13	48.28
Short-Circuit Current (Isc)[A]	13.97	14.02	14.07	14.11	14.16	14.21
Voltage at Pmax (Vmp)[V]	49.57	39.74	39.88	40.01	40.14	40.28
Current at Pmax (Imp)[A]	13.26	13.3	13.3	13.4	13.45	13.5

*Standard Test Conditions (STC): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Test Tolerance: ±3%
*Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

DUAL-SIDED POWER GENERATION PARAMETERS
双面发电参数（背面增益）

5%	Maximum Power (Pmax)[W]	725	730	735	740	746	751
	Module Efficiency:η [%]	23.3	23.5	23.7	23.8	24	24.2
15%	Maximum Power (Pmax)[W]	794	799	805	811	817	822
	Module Efficiency:η [%]	25.5	25.7	25.9	26.1	26.3	26.5
25%	Maximum Power (Pmax)[W]	863	869	875	881	888	894
	Module Efficiency:η [%]	27.8	28	28.2	28.4	28.6	28.8

POWER SYSTEM

供电系统套装

High-Efficiency Power Generation: Utilizes crystalline silicon solar panels with superior conversion efficiency to rapidly charge batteries and ensure continuous, stable equipment operation.

Harsh Environment Adaptability: Successfully certified under rigorous weathering tests including sand/dust, salt mist, and high ammonia concentrations, ensuring long-term durability in extreme outdoor conditions.

Excellent Equipment Compatibility: Offers highly adaptable integration with various low-voltage devices, seamlessly supporting security cameras, meteorological sensors, street lighting, and other terminal systems.

360
360-Day Zero Electricity Cost

Project Customization Support

Uninterrupted Rainy Day Operation

01

02

03

供电系统筒式套装

POWER SUPPLY SYSTEM TUBULAR ASSEMBLY

供电系统构成：

太阳能电池板 Solar Panel + 一体支架 Tubular Mounting Bracket + 控制器 Controller + 蓄电池 Battery =

供电系统背包套装

POWER SUPPLY SYSTEM BACKPACK SET

供电系统构成：

太阳能电池板 Solar Panel + 光伏支架 Universal Mounting Bracket + 控制器 Controller + 锂电池 Battery =

详细参数

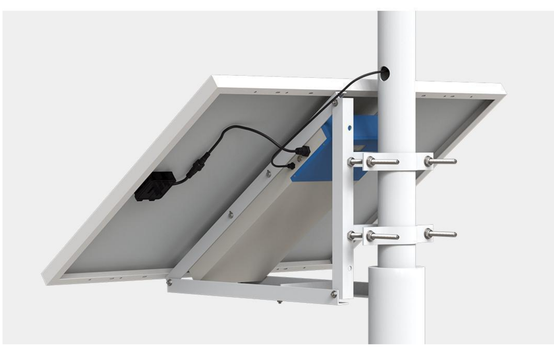
DETAILED PARAMETERS

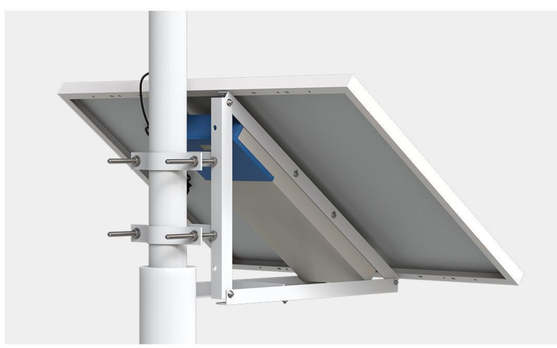
Product Model	Solar Panel Power	Lithium Battery Capacity	Controller	Mounting Bracket	Applicable Load	Reference Power Consumption	Autonomy in Rainy Days
60W/30Ah Kit	60W	30Ah	PWM 5A	TUBULAR ASSEMBLY	Bullet cameras, sensors, and other devices with a DC 5V/12V voltage rating; DC-DC buck-boost modules can be optionally selected for required supply voltages such as 5V/9V/12V/24V, etc.	5W	5–6 days
80W/40Ah Kit	80W	40Ah	PWM 5A			8W	3–4 days
100W/60Ah Kit	100W	60Ah	PWM 10A			8W	4–5 days

详细参数

DETAILED PARAMETERS

Product Model	Solar Panel Power	Lithium Battery Capacity	Controller	Mounting Bracket	Applicable Load	Reference Power Consumption	Autonomy in Rainy Days
100W/60AH Kit	60W	30Ah	PWM 5A	Universa	PTZ dome cameras and other devices with a DC 12V/24V voltage rating	10W	3 days
150W/80AH Kit	80W	40Ah	PWM 5A			10W	6-7 days
200W/120AH Kit	100W	60Ah	PWM 10A			28W	2 days





POWER SYSTEM

OFF-GRID ENERGY STORAGE SYSTEM

离网储能系统

Off-Grid Solar Power Systems are highly economical and practical power stations designed for telecommunication base stations, border posts, remote pastoral areas, non-electrified households, and islands. These systems utilize the region's abundant solar energy resources where there is no access to a stable power grid, population density is sparse, power loads are low, and transportation is inconvenient.

Simple Installation & Operation: The construction can be easily tailored to local site conditions, offering excellent portability for relocation, reallocation, or future capacity expansion.

Unbalanced Load Support: Provides highly stable voltage and frequency output, effectively protecting terminal electrical appliances while supporting unbalanced phase loads.

LED
Intelligent LED Display

Comprehensive Power Protection

市电/电池
Dual Adjustable Modes

离网储能系统

OFF-GRID ENERGY STORAGE SYSTEM

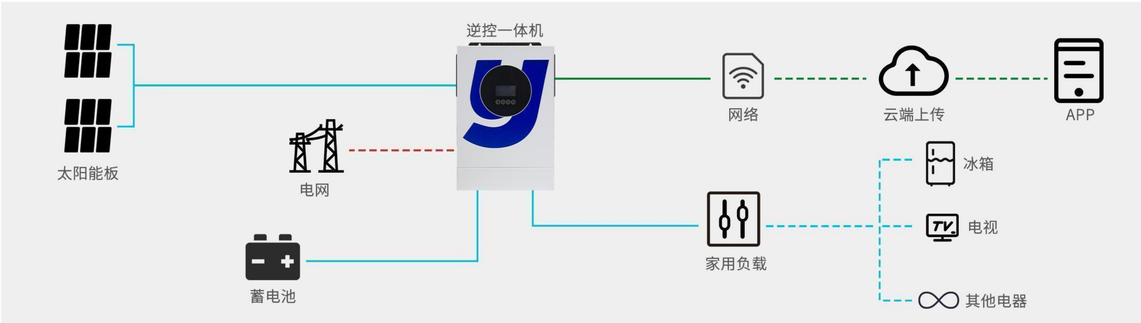
详细参数

DETAILED PARAMETERS

Product Model	PV Module	Inverter/Controller All-in-One	Energy Storage Battery	Daily Power Generation	Battery Capacity
3KW / 2.7KWH	550W 41V * 6	24V 3500W 100A	25.6V 100Ah	15 kWh	2.5 kWh
5KW / 5KWH	550W 41V * 10	48V 6200W 120A	51.2V 100Ah	25 kWh	5 kWh
5KW / 10KWH	550W 41V * 10	48V 6200W 120A	51.2V 200Ah	25 kWh	10 kWh
10KW / 15KWH	550W 41V * 18	48V 11000W 160A	51.2V 300Ah	45 kWh	15 kWh

离网储能系统安装图

OFF-GRID ENERGY STORAGE SYSTEM INSTALLATION DIAGRAM



STORAGE BATTERY

储能电池

Intelligent Design Integration: Seamlessly supports remote signal reception, remote control, and remote parameter adjustment to meet advanced smart-management requirements.

Integrated Smart Balancing Module: Dynamically maintains capacity consistency across the battery pack during long-term operation, effectively maximizing overall battery lifespan.

Comprehensive Safety Safeguards: Built-in heavy-duty protection mechanisms guarding against system overload, overheating, and short circuits.

Pure Sine Wave Inverter: Delivers high-quality, stable AC power output to ensure smooth operation and protect sensitive equipment from electrical noise.

Multi-Layered Protection

Intelligent Design Integration

Pure Sine Wave Inverter

STORAGE BATTERY

机架式储能电池

RACK-MOUNTED ENERGY STORAGE BATTERY

立式储能电池

VERTICAL STORAGE BATTERY

详细参数

DETAILED PARAMETERS

Product Model	Battery Capacity	Nominal Energy	Storage Temperature	Dimensions (mm)	Weight (kg)
F51.2 100 Rack-Mounted	100 Ah	5120 Wh	-20°C ~ +45°C	446 × 482 × 178	41
F51.2 200 Rack-Mounted	200 Ah	10240 Wh	-20°C ~ +45°C	482 × 596 × 567	81.5
F51.2 300 Rack-Mounted	300 Ah	15360 Wh	-20°C ~ +45°C	735 × 485 × 270	112.5

机架式储能电池

RACK-MOUNTED ENERGY STORAGE BATTERY

详细参数

DETAILED PARAMETERS

Product Model	Battery Capacity	Nominal Energy	Storage Temperature	Dimensions (mm)	Internal Resistance
F51.2 300 Vertical	300 Ah	15360 Wh	-20°C ~ +45°C	428 × 366 × 708	≤100 mΩ
F51.2 600 Vertical	600 Ah	30720 Wh	-20°C ~ +45°C	740 × 450 × 680	≤100 mΩ

立式储能电池

VERTICAL STORAGE BATTERY

壁挂式储能电池

WALL-MOUNTED ENERGY STORAGE BATTERY

堆叠式储能电池

STACKED ENERGY STORAGE BATTERY

详细参数

DETAILED PARAMETERS

Product Model	Battery Capacity	Nominal Energy	Storage Temperature	Dimensions (mm)	Internal Resistance
F51.2 100 Wall-Mounted	300 Ah	15360 Wh	-20°C ~ +45°C	428 × 366 × 708	≤100 mΩ
F51.2 200 Wall-Mounted	600 Ah	30720 Wh	-20°C ~ +45°C	740 × 450 × 680	≤100 mΩ

壁挂式储能电池

WALL-MOUNTED ENERGY STORAGE BATTERY

详细参数

DETAILED PARAMETERS

Product Model	Battery Capacity	Nominal Energy	Storage Temperature	Dimensions (mm)	Internal Resistance
F51.2 100 Stacked	100AH	5120WH	-20℃~+45℃	555.2*497*199	≤100mΩ

堆叠式储能电池

STACKED ENERGY STORAGE BATTERY

INVERTER-CONTROLLER ALL-IN-ONE

INVERTER-CONTROLLER ALL-IN-ONE

逆控一体机

Integrated Inverter/Controller Design: Combining the inverter and controller into a single unit reduces external wiring, minimizes physical footprints, and accelerates on-site installation and commissioning. This significantly lowers construction complexity and labor costs, making it ideal for residential and small-scale off-grid photovoltaic systems.

Unified Component Optimization: Internal components are perfectly matched and optimized to eliminate redundant external devices and terminal connections. This structural integration minimizes interference, reduces power loss, and enhances overall system stability, rendering it particularly effective in environments with high solar irradiance fluctuations.

Streamlined Maintenance & Cost Efficiency: The all-in-one configuration eliminates complex ancillary accessories and wiring webs, simplifying post-installation upkeep to a single piece of equipment. Troubleshooting is highly straightforward, reducing both initial acquisition costs and long-term operational expenses–a perfect match for users seeking a reliable, low-maintenance, and hassle-free power solution.

99%

详细参数
DETAILED PARAMETERS

Product Model	Maximum Output Power	Maximum Peak Power	Storage Temperature	Product Dimensions	Net Weight
12V 1.2KW	1200W	2.4 kVA	-15°C ~ +60°C	347 × 236 × 91 mm	3.2 kg
24V 3.6KW	3600W	7.2 kVA	-15°C ~ +60°C	420 × 284 × 94 mm	6.4 kg
48V 6.0KW	6000W	12 kVA	-15°C ~ +60°C	410 × 336 × 110 mm	8.4 kg
48V 12KW	12000W	24 kVA	-15°C ~ +60°C	495 × 500 × 210 mm	14.9 kg

INVERTER-STORAGE

INVERTER-STORAGE ALL-IN-ONE

逆储一体机

Uninterrupted Power Supply: Features an integrated energy storage management system that supports simultaneous charging and discharging. The system automatically switches to battery power during utility grid outages or nighttime hours without sunlight, delivering continuous, seamless backup power perfectly suited for homes, commercial shops, and telecommunication base stations.

Peak-Shaving & Cost Optimization: Supports peak-to-valley energy arbitrage by charging during low-tariff off-peak hours and discharging during high-tariff peak hours to significantly lower electricity expenses. Additionally, it prioritizes photovoltaic (PV) self-consumption, maximizing solar utilization and delivering substantial long-term economic returns.

Smart Energy Management & Universal Adaptability: Equipped with a built-in Battery Management System (BMS) and intelligent scheduling capabilities to harmonize PV, grid, and battery operation. With remote monitoring and flexible mode-switching support, it adapts flawlessly to a wide range of application scenarios including off-grid, grid-tied, and emergency backup systems.

99%

详细参数

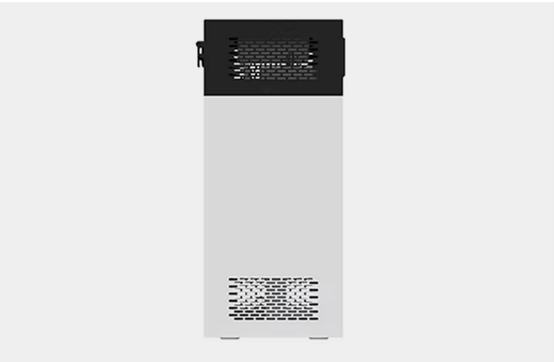
DETAILED PARAMETERS

Product Model	Maximum Charging Current	Maximum Input Power	Product Dimensions	Weigh t
3.6KW / 8KWH	100A	5000W	450 × 831 × 246 mm	76 kg
6KW / 16KWH	120A	9000W	430 × 736 × 481 mm	140 kg
12KW / 16KWH	160A	12000W	1550 × 595 × 298 mm	/
12KW / 30KWH	160A	12000W	1550 × 595 × 298 mm	/

便携式逆储一体机

详细参数
DETAILED PARAMETERS

Product Model	Battery Capacity	Maximum Input Power	Product Dimensions	Weight
300W / 896WH	280 Ah	300W	210 × 360 × 156 mm	12 kg
500W / 1000WH	314 Ah	400W	210 × 360 × 156 mm	12 kg
1000W / 2009WH	314 Ah	550W	240 × 360 × 225 mm	12 kg



C&I ENERGY STORAGE SUPPORTING

工商储配套

Integrated & Scalable: Compact architecture significantly saves installation space. Supports both rack and cabinet configurations for flexible capacity scaling to meet diverse commercial and industrial demands.

Safe & Durable: Equipped with multi-layered protections (overcharge, overcurrent, short circuit , overtemperature). Compliant with UN38.3 standards with an IP20/IP54 rating, ensuring stable operation and an ultra-long lifespan.

Smart & Efficient: Supports multi-unit parallel connection and intelligent control, featuring a rapid on/off-grid transfer time of <10ms. Reaches up to 98.2% maximum efficiency with minimal standby power consumption.

Adaptable & Low-O&M: Offers versatile cooling options and thrives across wide temperature, humidity, and altitude ranges. Outfitted with comprehensive communication interfaces for highly simplified operation and maintenance.

C&I ENERGY STORAGE

高压储能柜

HIGH-VOLTAGE ENERGY STORAGE CABINET

高度集成，节约空间
Highly integrated, space saving

技术成熟，稳定可靠
Mature technology, stable and reliable

灵活部署、灵活增减
Flexible deployment, flexible increase and decrease

详细参数

DETAILED PARAMETERS

Product Model	Module Quantity	Module Configuration	Nominal Voltage	Battery Capacity
HV PRO 256V 100AH	5	1P16S	256 Vdc	25 kWh
HV PRO 307.2V 100AH	6	1P16S	307.2 Vdc	30 kWh
HV PRO 409.6V 100AH	8	1P16S	409.6 Vdc	40 kWh
HV PRO 512V 100AH	10	1P16S	512 Vdc	51 kWh

Battery Type	Storage Temperature	Operating Temperature	Dimensions per Module	Weight per Module
LiFePO4	0°C ~ 30°C	-10°C ~ +50°C	650 × 440 × 150 mm	50 kg

高压储能柜

HIGH-VOLTAGE ENERGY STORAGE CABINET

高度集成，节约空间
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技术成熟，稳定可靠
Mature technology, stable and reliable

灵活部署、灵活增减
Flexible deployment, flexible increase and decrease

详细参数

DETAILED PARAMETERS

Product Model	Module Quantity	Module Configuration	Nominal Voltage	Battery Capacity
HV PRO 256V 200AH	5	1P16S	256 Vdc	51 kWh
HV PRO 307.2V 200AH	6	1P16S	307.2 Vdc	61 kWh
HV PRO 409.6V 200AH	8	1P16S	409.6 Vdc	81 kWh
HV PRO 512V 200AH	10	1P16S	512 Vdc	102 kWh

Battery Type	Storage Temperature	Operating Temperature	Dimensions per Module	Weight per Module
LiFePO4	0°C ~ 30°C	-10°C ~ +50°C	660 × 440 × 230 mm	105 kg

工商储能一体机

C&I ENERGY STORAGE ALL-IN-ONE SYSTEM

高度集成，节约空间
Highly integrated, space saving

技术成熟，稳定可靠
Mature technology, stable and reliable

灵活部署、灵活增减
Flexible deployment, flexible increase and decrease

详细参数

DETAILED PARAMETERS

Product Model	100kW + 200kWh	100kW + 217kWh
Battery Type	LiFePO4	LiFePO4
Rated Power	100 kVA	100 kVA
Module Quantity	10	9
Rated Capacity	314 Ah	314 Ah
Rated Voltage	640 Vdc	691.2 Vdc
Rated Energy / Capacity	200 kWh	217 kWh
Maximum Efficiency	0.982	0.982
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C

工商储能一体机

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详细参数

DETAILED PARAMETERS

Product Model	125kW + 241kWh	125kW + 261kWh
Battery Type	LiFePO4	LiFePO4
Rated Power	125 kVA	125 kVA
Module Quantity	10	10
Rated Capacity	314 Ah	314 Ah
Rated Voltage	768 Vdc	832 Vdc
Rated Energy / Capacity	241 kWh	261 kWh
Maximum Efficiency	0.982	0.982
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C

PART 3

CASE DISPLAY

案例展示

- 离网储能系统/Off-grid energy storage system
- 集中式光伏供电/Centralized photovoltaic power supply
- 太阳能供电系统/Solar power supply system

CASE DISPLAY

SERVICE SECTOR

离网储能系统案例展示

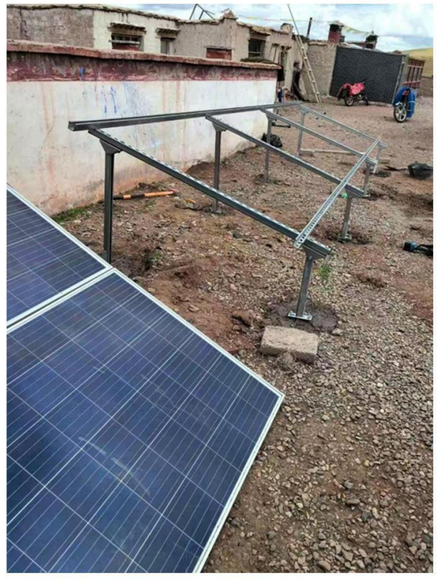
Off-grid energy storage system Show Case

PART 1

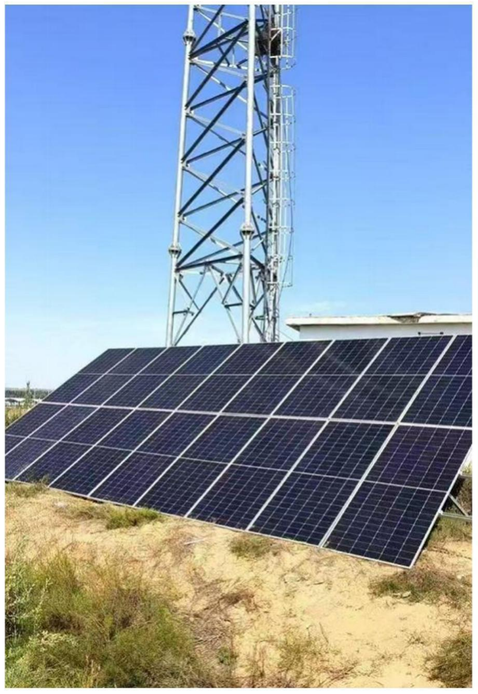
Inner Mongolia Pastoral Area Aid & Relief

Telecom Tower Base Station Power Supply

Industrial & Office Centralized Power Supply



Mongolian Pastoral Mobile Prefab House Power Supply



Tibet Region Power Supply Aid

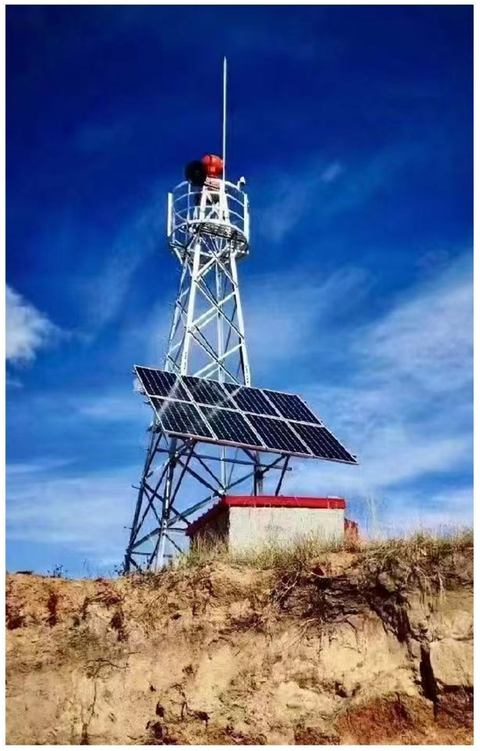
Solar Carport / PV Carport

Mongolia National Forest Park

SERVICE SECTOR

离网储能系统案例展示

Off-grid energy storage system Show Case



SERVICE SECTOR

集中式光伏供电案例展示

Centralized photovoltaic power supply Show Case

PART 2

SERVICE SECTOR

太阳能供电系统案例展示

Solar power supply system Show Case

PART 3

Solar-Powered Smart Transportation

This solution provides 24/7 uninterrupted power for highway traffic cameras, requiring minimal to zero activation of backup grid power.It delivers exceptional social benefits alongside highly positive economic returns.

GNSS Slope Monitoring

An advanced system integrating solar power with GNSS technology to deliver real-time monitoring and early warnings for physical deformations, structural shifts, and displacements in large-scale engineering projects.

Solar-Powered Forest Fire Prevention Solution

A critical architecture for modern forestry safety that significantly elevates fire detection efficiency and accuracy. By lowering long-term operational costs and reinforcing emergency response capabilities, it ensures robust, proactive forest protection.

Wind-Solar Hybrid Power Solution

This system maximizes the high complementarity of solar and wind energy to seamlessly adapt to power generation challenges caused by shifting environmental conditions. It substantially enhances the long-term durability and overall stability of the power supply.

Solar-Powered Telecom Base Stations

Tailored for remote communication sites, this solution eliminates the need for fuel or energy deliveries and bypasses local geographic barriers. With its straightforward construction and low deployment costs, it completely satisfies the diverse load demands of various telecom base stations.

Solar-Powered Smart Transportation:
This solution provides 24/7 uninterrupted power for highway

traffic cameras, requiring minimal to
zero activation of backup grid power.
It delivers exceptional social benefits
alongside highly positive economic
returns.

Hydrological & Water Conservancy Monitoring

Utilizing intelligent video modules, this solution delivers rapid positioning and real-time monitoring of critical hydrological data, including water volume, rainfall, temperature, water level, and flow velocity, enabling proactive early-warning capabilities before incidents occur.